

## Vyncolit BXE650 Inorganic Filled Phenolic Molding Compound

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Mineral Filled

### Material Notes:

Novolac resin based, inorganic filled. Excellent isotropic properties and superior dimensional stability. High mechanical properties even at elevated temperatures. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Vyncolit-BXE650-Inorganic-Filled-Phenolic-Molding-Compound.php](http://www.lookpolymers.com/polymer_Vyncolit-BXE650-Inorganic-Filled-Phenolic-Molding-Compound.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.750 g/cc	0.0271 lb/in <sup>3</sup>	ISO 60
Density	1.99 g/cc	0.0719 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.050 %	0.050 %	ISO 62
Linear Mold Shrinkage	0.0018 cm/cm	0.0018 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17300 psi	ISO 527-1
Elongation at Break	0.59 %	0.59 %	ISO 527-1
Tensile Modulus	23.0 GPa	3340 ksi	ISO 527-1
Flexural Strength	240 MPa	34800 psi	ISO 178
Flexural Modulus	21.0 GPa	3050 ksi	ISO 178
Compressive Strength	434 MPa	62900 psi	ISO 604
Charpy Impact Unnotched	1.36 J/cm <sup>2</sup>	6.47 ft-lb/in <sup>2</sup>	ISO 179-1
Charpy Impact, Notched	0.290 J/cm <sup>2</sup>	1.38 ft-lb/in <sup>2</sup>	ISO 179-1
Coefficient of Friction, Dynamic	0.54	0.54	
Coefficient of Friction, Static	0.56	0.56	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.0 μm/m-°C	8.89 μin/in-°F	TMA
CTE, linear, Transverse to Flow	24.0 μm/m-°C	13.3 μin/in-°F	TMA
Thermal Conductivity	0.510 W/m-K	3.54 BTU-in/hr-ft <sup>2</sup> -°F	ASTM E1461
Deflection Temperature at 1.8 MPa (264 psi)	>= 250 °C	>= 482 °F	ISO 75 Af

Thermal Properties <small>Stress at 8.0 MPa</small>	Metric	English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	0.040 %	0.040 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.10e+14 ohm-cm	2.10e+14 ohm-cm	IEC 60093
Surface Resistance	2.50e+12 ohm	2.50e+12 ohm	IEC 60093
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 60243-1
Comparative Tracking Index	225 V	225 V	IEC 60250

Descriptive Properties	Value	Comments
Color	Black	
Molding Method	Compression	
	Injection	
	Transfer	

## Contact Songhan Plastic Technology Co.,Ltd.

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